

Substitute (form 1449A/PTO -
(Modified))
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10762,931
Filing Date	January 21, 2004
First Named Inventor	HEINER, David
Art Unit	1764
Examiner Name	To Be Assigned
Attorney Docket Number	A-72075/RMS/VEJ (469249-00405)

Sheet **1** of **13**

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PSH	A1	3,586,484	06-22-1971	Anderson II, et al.	
	A2	3,748,975	07-31-1973	Tarabocchia	
	A3	4,200,110	04-29-1980	Peterson et al.	
	A4	4,448,485	05-15-1984	Bergman et al.	
	A5	4,499,052	02-12-1985	Fulwyler	
	A6	4,682,895	07-28-1987	Costello	
	A7	4,721,769	01-26-1988	Rubner	
	A8	4,729,949	03-08-1988	Weinreb et al.	
	A9	4,772,540	09-20-1988	Deutsch et al.	
	A10	4,785,814	11-22-1988	Kane	
	A11	4,822,746	04-18-1989	Walt	
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	A13	4,842,783	06-27-1989	Blaylock	
	A14	4,868,130	09-19-1989	Hargeaves	
	A15	4,879,097	11-07-1989	Whitehead et al.	
	A16	4,894,343	01-16-1990	Tanaka et al.	
	A17	4,895,805	01-23-1990	Sato et al.	
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	A20	5,002,867	03-26-1991	Macevicz	
	A21	5,015,843	05-14-1991	Seitz et al.	
	A22	5,019,350	05-25-1991	Rhum et al.	
	A23	5,026,599	06-25-1991	Koskenmaki	
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	A26	5,105,305	04-14-1992	Betzig et al.	
	A27	5,110,745	05-05-1992	Kricka et al.	
	A28	5,132,242	07-21-1992	Cheung	
	A29	5,135,627	08-04-1992	soane	
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	A31	5,152,287	10-06-1992	Kane	
	A32	5,176,881	01-05-1993	Sepaniak et al.	
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	A35	5,185,243	02-09-1993	Ullman et al.	

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Substitute for form 1449A/PTO (Modified)			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/762,931	
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			Art Unit	1764	
			Examiner Name	To Be Assigned	
Sheet	2	of	13	Attorney Docket Number	A-72075/RMS/VEJ (469249-00405)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
P84	A36	5,194,300	03-16-1993	Cheung	
	A37	5,222,092	06-22-1996	Hench et al.	
	A38	5,244,636	09-14-1993	Walt et al.	
	A39	5,244,813	09-14-1993	Walt et al.	
	A40	5,250,264	10-05-1993	Walt et al.	
	A41	5,252,494	12-21-1993	Weinreb et al.	
	A42	5,296,375	03-22-1994	Kricka et al.	
	A43	5,298,741	03-29-1994	Walt et al.	
	A44	5,302,509	04-12-1994	Cheeseman	
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	A46	5,308,771	05-03-1994	Zhou et al.	
	A47	5,310,674	05-10-1994	Weinreb et al.	
	A48	5,320,814	06-14-1994	Walt et al.	
	A49	5,338,831	08-16-1994	Lebl et al.	
	A50	5,342,585	08-30-1994	Lebl et al.	
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	A52	5,357,590	10-18-1994	Auracher	
	A53	5,481,629	01-02-1996	Tabuchi	
	A54	5,486,335	01-23-1996	Wilding et al.	
	A55	5,494,798	02-27-1996	Gerdt et al.	
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	A58	5,506,141	04-09-1996	Weinreb et al.	
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	A62	5,537,000	07-16-1996	Alivisatos et al.	
	A63	5,541,311	07-30-1996	Dahlberg et al.	
	A64	5,545,531	08-13-1996	Rava et al.	
	A65	5,554,516	09-10-1996	Kacian et al.	
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	A67	5,587,128	12-24-1996	Wilding et al.	
	A68	5,589,351	12-31-1996	Harootunian	
	A69	5,593,838	01-14-1997	Zanzucchi et al.	

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PSH	A70	5,595,915	01-21-1997	Geysan	
	A71	5,603,351	02-18-1997	Cherukuri et al.	
	A72	5,604,097	02-18-1997	Brenner	
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	A74	5,631,170	05-20-1997	Attridge	
	A75	5,631,337	05-20-1997	Sassi et al.	
	A76	5,632,876	05-27-1997	Zanzucchi et al.	
	A77	5,632,957	05-27-1997	Heller et al.	
	A78	5,633,972	05-27-1997	Wilding et al.	
	A79	5,637,469	06-10-1997	Wilding et al.	
	A80	5,639,603	06-17-1997	Dower et al.	
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	A82	5,643,738	07-01-1997	Zanzucchi et al.	
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	A84	5,649,576	07-22-1997	Kirk et al.	
	A85	5,656,241	08-12-1997	Seifert et al.	
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	A87	5,671,303	09-23-1997	Shieh et al.	
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	A91	5,690,894	11-25-1997	Pinkel et al.	
	A92	5,702,915	12-30-1997	Miyamoto	
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	A103	5,780,231	07-14-1998	Brenner	
	A104	5,795,714	08-18-1998	Cantor et al.	

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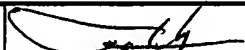
¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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PSH	A105	5,795,716	08-18-1998	Chee et al.	
	A106	5,814,524	09-29-1998	Walt et al.	
	A107	5,830,711	11-03-1998	Barany et al.	
	A108	5,837,196	11-17-1998	Pinkel et al.	
	A109	5,840,256	11-24-1998	Demers et al.	
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	A111	5,846,842	12-08-1998	Herron et al.	
	A112	5,849,215	12-15-1998	Gin et al.	
	A113	5,854,033	12-29-1998	Lizardi	
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	A115	5,856,083	01-05-1999	Chelsky et al.	
	A116	5,858,732	01-05-1999	Solomon et al.	
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	A121	5,876,924	03-02-1999	Zhang et al.	
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	A124	5,900,481	05-04-1999	Lough et al.	
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	A137	6,087,114	07-11-2000	Rider	

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PSM	A138	6,090,549	07-18-2000	Mirzabekov et al.	
	A139	6,096,496	08-01-2000	Frankel	
	A140	6,100,973	08-08-2000	Lawandy	
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	A143	6,129,896	10-10-2000	Noonan et al	
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	A146	6,172,218 B1	01-09-2001	Brenner	
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	A148	6,207,392 B1	03-27-2001	Weiss et al.	
	A149	6,210,910 B1	04-03-2001	Walt et al.	
	A150	6,251,639 B1	06-26-2001	Kurn	
	A151	6,261,782 B1	07-17-2001	Lizardi et al.	
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	A159	6,355,431 B1	03-12-2002	Chee et al.	
	A160	6,663,832 B2	12-16-2003	Lebl et al.	
	A161	2003/0016897 A1	01-23-2003	Walt et al.	

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PSM	B1	EP 0 039 888 B1	11-18-1981	Schloemann Siemens AG		
	B2	EP 0 392 546 A2	10-17-1990	Ro Institut Za Molekularnu Genetik I Geneticko Inzenjerstvo		
	B3	EP 0 539 888 A1	05-05-1993	Shimadzu Corp.		


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PSH	B4	EP 0 572 157 A1	12-01-1993	Puritan-Bennett Corp.		
	B5	EP 0 799 897 A1	10-08-1997	Affymetrix, Inc.		
	B6	EP 1 128 310 A2/A3	08-29-2001	Agilent Technologies, Inc.		
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	B8	GB 2 294 319 A	04-24-1996	Cambridge Imaging Ltd.		
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	B11	WO 90/09885 A1	09-07-1990	E.I. DuPont de Nemours & Co.		
	B12	WO 93/18434 A1	09-16-1993	E.I. Du Pont de Nemours & Co.		
	B13	WO 93/25563 A1	12-23-1993	City of Hope		
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	B15	WO 95/21271 A1	08-10-1995	Molecular Tool, Inc.		
	B16	WO 95/33070 A1	12-07-1995	New York Medical College		
	B17	WO 96/03212 A1	02-08-1996	Brenner, Sydney		
	B18	WO 96/04547 A1	02-15-1996	Lockheed Martin Energy Systems, Inc.		
	B19	WO 96/15271 A1	05-23-1996	Abbott Laboratories		
	B20	WO 96/36436 A1	11-21-1996	Irori		
	B21	WO 97/12030 A1	04-03-1997	Nanogen, Inc.		
	B22	WO 97/13870 A1	04-17-1997	Heller, Adam		
	B23	WO 97/14028 A2, A3	04-17-1997	Luminex Corp.		
	B24	WO 97/31256 A2, A3	08-28-1997	Cornell Res. Foundation, Inc.		
	B25	WO 97/45559 A1	12-04-1997	Cornell Res. Foundation, Inc.		
	B26	WO 97/46704 A1	12-11-1997	Lynx Therapeutics, Inc.		
	B27	WO 98/08092 A1	02-28-1998	SmithKline Beecham Corp.		
	B28	WO 98/13523 A1	04-02-1998	Pyrosequencing AB		
	B29	WO 98/29736 A1	07-09-1998	Genometrix Inc.		
	B30	WO 98/31836 A1	07-23-1998	Hyseq, Inc.		
	B31	WO 98/40726 A1	09-17-1998	Trustees of Tufts College		

Examiner Signature		Date Considered	11/29/07
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Substitute for form 1448A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete If Known		
			Application Number	10/762,931	
			Filing Date	January 21, 2004	
			First Named Inventor	HEINER, David	
			Art Unit	1764	
Examiner Name	To Be Assigned				
Sheet	7	of	13	Attorney Docket Number	A-72075/RMS/VEJ (469249-00405)

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
PSH	B32	WO 98/46797 A1	10-22-1998	Immunological Associates of Denver		
	B33	WO 98/50782 A2, A3	11-12-1998	Trustees of Tufts College		
	B34	WO 98/53093 A1	11-26-1998	Bioarray Solutions LLC		
	B35	WO 99/00663 A1	01-07-1999	California Institute of Technology		
	B36 *	WO 99/04228 A2/A3	01-28-1999	LJL BioSystems, Inc.		
	B37	WO 99/05320 A1	02-04-1999	Rapigene, Inc.		
	B38	WO 99/09394 A1	02-25-1999	Alexion Pharmaceuticals, Inc.		
	B39	WO 99/18434 A1	04-15-1999	Trustees of Tufts College		
	B40	WO 99/34931 A1	07-15-1999	Cartesian Technologies, Inc.		
	B41	WO 99/39001 A2	08-05-1999	Amersham Pharmacia Biotech AB		
	B42	WO 99/64867 A1	12-16-1999	Amersham Pharmacia Biotech UK Ltd.		
	B43	WO 99/67414 A1	12-29-1999	Glaxo Group Ltd.		
	B44	WO 00/04372 A1	01-27-2000	The Board of Regents of the University of Texas System		
	B45	WO 00/39587 A1	07-06-2000	Illumina, Inc.		
	B46	WO 00/44491 A2/A3	08-03-2000	Illumina, Inc.		
	B47	WO 00/47767 A1	08-17-2000	AstraZeneca UK Ltd.		
	B48	WO 00/47996 A2/A3	08-17-2000	Illumina, Inc.		
	B49 *	WO 02/04123 A1	01-17-2002	Robodesign International, Inc.		
	B50 *	WO 02/16040 A1	02-28-2002	The University of Chicago		

NON PATENT LITERATURE DOCUMENTS				
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PSH	C1	ABEL, A.P., et al., "Fiber-optic evanescent wave biosensor of oligonucleotides," <i>Anal. Chem.</i> 68(17):2905-2912 (Sep. 1996).		
I	C2	ANGEL, S.M., "Optrodes: Chemically Selective Fiber-Optic Sensors," <i>Spectroscopy</i> 2(4):38-47 (1987).		
I	C3	BARNARD, S.M., et al., "Fiber-optic organic vapor sensor," <i>Environ. Sci. Technol.</i> 25(7):1301-1304 (Jul. 1991).		

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		Application Number	10/762,931		
		Filing Date	January 21, 2004		
		First Named Inventor	HEINER, David		
		Art Unit	1764		
		Examiner Name	To Be Assigned		
Sheet	8	of	13	Attorney Docket Number	A-72075/RMS/VEJ (469249-00405)

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PSH	C4	BEN-DOR, A., et al., "Universal DNA Tag Systems: A combinatorial design scheme," <i>J. Comput. Biol.</i> 7(3/4):503-519 (2000).		
	C5	BIRINDELLI, S., et al., "Letter to the Editor: Comments on Adaptation of the Cellscan Technique for the SCM Test in Breast Cancer Rahmani et al., <i>Eur. J. Cancer</i> , 32A, No. 10, pp. 1758-1765 1996," <i>Eur. J. Cancer</i> 33(8):1333-1334 (Jul. 1997).		
	C6	CAREY, W.P., et al., "Chemical piezoelectric sensor and sensor array characterization," <i>Anal. Chem.</i> 58(14):3077-3084 (Dec. 1986).		
	C7	CASTAÑO, J.P., et al., "Dynamic Monitoring and Quantification of Gene Expression in Single, Living Cells: A Molecular Basis for Secretory Cell Heterogeneity," <i>Mol. Endocrinol.</i> 10(5):599-605 (May 1996).		
	C8	CHEN, G., et al., "Observation and Quantitation of Exocytosis from the Cell Body of a Fully Developed Neuron in Planorbis corneus," <i>J. Neurosci.</i> 15(11):7747-7755 (Nov. 1995).		
	C9	CHEN, J., et al., "A Microsphere-Based Assay for Multiplexed Single Nucleotide Polymorphism Analysis Using Single Base Chain Extension," <i>Genome Res.</i> 10(4):549-557 (Apr. 2000).		
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	C11	CLARK, R.A., et al., "Electrochemical analysis in picoliter microvials," <i>Anal. Chem.</i> 69(2):259-263 (Jan. 1997).		
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	C13	DANIELSON, E., et al., "A combinatorial approach to the discovery and optimization of luminescent materials," <i>Nature</i> 389(6654):944-948 (Oct. 1997).		
	C14	DeFOREST, W.S., <i>Photoresist Materials and Processes</i> , McGraw-Hill Book Co.: New York, NY (1975).		
	C15	DEUTSCH, M., et al., "Apparatus for high-precision repetitive sequential optical measurement of living cells," <i>Cytometry</i> 16(3):214-216 (Jul. 1994).		
	C16	DICKINSON, T., et al., "Generating sensor diversity through combinatorial polymer synthesis," <i>Anal. Chem.</i> 69(17):3413-3418 (Sep. 1997).		
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	C22	DRMANAC, R., et al., "Sequencing by Hybridization," <i>Automated DNA Sequencing and Analysis</i> , M. Adams et al. (eds.) (1994).		

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			Filing Date	January 21, 2004	
			First Named Inventor	HEINER, David	
			Art Unit	1764	
			Examiner Name	To Be Assigned	
Sheet	9	of	13	Attorney Docket Number	A-72075/RMS/VEJ (469249-00405)

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PSH	C23	DRMANAC, R., et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program," <i>The 1st Intl. Conf. Electrophoresis Supercomputing and the Human Genome</i> , Proceeding of the April 10-13, 1990 Conference, Florida State University (Cantor, C., and Lim, H., eds).		
	C24	EGNER, B.J., et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," <i>Chem. Commun.</i> 8:735-736 (1997).		
	C25	FAN, J.B., et al., "Parallel genotyping of human SNPs using generic high-density oligonucleotide tag arrays," <i>Genome Res.</i> 10(6):853-860 (Jun. 2000).		
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	C27	FODOR, S., et al., "Light-directed, spatially addressable parallel chemical synthesis," <i>Science</i> 251(4995):767-773 (Feb. 1991).		
	C28	FREEMAN, T., et al., "Oxygen probe based on tetrakis(alkylamino)ethylene-Chemiluminescence," <i>Anal. Chem.</i> 53(1):98-102 (Jan. 1981).		
	C29	FUH, M., "Single Fibre Optic Fluorescence pH Probe," <i>Analyst</i> 112():1159-1163 (1987).		
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	C39	HIRSCHHORN, J.N., et al., "SBE-TAGS: an array-based method for efficient single-nucleotide polymorphism genotyping," <i>Proc. Natl. Acad. Sci. USA</i> 97(22):12164-12169 (Oct. 2000).		
	C40	HOGAN, B.L., et al., "Single-cell analysis at the level of a single human erythrocyte," <i>Trends Anal. Chem.</i> 12(1):4-9 (1993).		

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			Filing Date	January 21, 2004	
			First Named Inventor	HEINER, David	
			Art Unit	1764	
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PSH	C41	HSUIH, T., et al., "Novel, ligation-dependent PCR assay for detection of hepatitis C virus in serum," <i>J. Clin. Microbiol.</i> 34(3):501-507 (Mar. 1996).		
	C42	HUANG, L., et al., "Exploring single-cell dynamics using chemically-modified microelectrodes," <i>Trends Anal. Chem.</i> 14(4):158-164 (1995).		
	C43	HUBERT, C., et al., "Design of solvatochromic polymer-based fiber optics chemical sensor for polar solvent detection," <i>Adv. Mater.</i> 7(11):914-917 (1995).		
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	C46	INCE, C., et al., "A micro-perfusion chamber for single-cell fluorescence measurements," <i>J. Immunol. Meth.</i> 128(2):227-234 (Apr. 1990).		
	C47	JACOBS, J., et al., "Combinatorial chemistry - applications of light-directed chemical synthesis," <i>Trends Biotechnol.</i> 12(1):19-26 (Jan. 1994).		
	C48	KOOP, A., et al., "Continuous bioluminescent monitoring of cytoplasmic ATP in single isolated rat hepatocytes during metabolite poisoning," <i>Biochem. J.</i> 295(Pt. 1):165-170 (Oct. 1993).		
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	C51	LIN, V.S., et al., "A porous silicon-based optical interferometric biosensor," <i>Science</i> 278(5339):840-843 (Oct. 1997).		
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	C56	LUNDSTRÖM, I., et al., "Why bother about gas-sensitive field-effect devices?" <i>Sens. Actuators</i> ():75-82 (1996).		
	C57	LUONG, J.H.T., et al., "Fluorescence Sensors for Monitoring Bioprocesses," <i>Practical Fluorescence</i> , 2 nd ed., G.G. Guibault (ed.), 775-793, Marcel Dekker & Co.: New York, NY: (1990).		
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PSH	C60	MICHAEL, K., et al., "Fabrication of Micro- and Nanostructures Using Optical Imaging Fibers and Their Use as Chemical Sensors," <i>Proc. 3rd Intl. Symp., Microstructures Microfabricated Sys.</i> , (Hersketh, P.J., et al. (eds.), <i>Electrochem. Soc.</i> 97(5):152-157 (Aug. 1997).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/762,931	
			Filing Date	January 21, 2004	
			First Named Inventor	HEINER, David	
			Art Unit	1764	
			Examiner Name	To Be Assigned	
Sheet	12	of	13	Attorney Docket Number	A-72075/RMS/VEJ (469249-00405)

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
PSM	C79	PLUNKETT, M., et al., "Combinatorial chemistry and new drugs," <i>Sci. Am.</i> 276(4):69-73 (Apr. 1997).		
	C80	POPE, E., "Fiber optic chemical microsensors employing optically active silica microspheres," <i>SPIE Proc.</i> 2388():245-256 (1995).		
	C81	RAHMANI, H., et al., "Adaptation of the Cellscan Technique for the SCM Test in Breast Cancer," <i>Eur. J. Cancer</i> 32A(10):1758-1765 (Sep. 1996).		
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PSH	C98	WALT, D., "Fiber Optic Imaging Sensors," <i>Acc. Chem. Res.</i> 31(5):267-278 (1998).		
	C99	WALT, D., "Fiber-optic sensors for continuous clinical monitoring," <i>Proc. IEEE</i> 80(6):903-911 (1992).		
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	C101	WHITE, J., et al., "Rapid analyte recognition in a device based on optical sensors and the olfactory system," <i>Anal. Chem.</i> 68(13):2191-2201 (Jul. 1996).		
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